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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/606,829	06/27/2003	Xinhua Gu	A8583	4829
23373	7590	02/15/2006	[REDACTED]	[REDACTED] EXAMINER BOLDA, ERIC L
SUGHRUE MION, PLLC 2100 PENNSYLVANIA AVENUE, N.W. SUITE 800 WASHINGTON, DC 20037			[REDACTED] ART UNIT 3663	[REDACTED] PAPER NUMBER

DATE MAILED: 02/15/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)	
	10/606,829	GU ET AL.	
	Examiner Eric Bolda	Art Unit 3663	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) Responsive to communication(s) filed on 11/01/06

2a) This action is FINAL. 2b) This action is non-final.

3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4) Claim(s) 1-35 is/are pending in the application.

4a) Of the above claim(s) 4 and 17-34 is/are withdrawn from consideration.

5) Claim(s) 5-16 and 35 is/are allowed.

6) Claim(s) 1-3 is/are rejected.

7) Claim(s) _____ is/are objected to.

8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9) The specification is objected to by the Examiner.

10) The drawing(s) filed on 20 December 2005 is/are: a) accepted or b) objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a) All b) Some * c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)	4) <input type="checkbox"/> Interview Summary (PTO-413)
2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Date. _____ .
3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date <u>12/20/2005</u> .	5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)
	6) <input type="checkbox"/> Other: _____

DETAILED ACTION

Response to Amendment

1. This Office Action is responsive to Applicant's amendment of Jan. 10, 2006.
2. The objections to amended specification are withdrawn.

Drawings

3. The replacement drawing (Fig. 2 B) was received on Dec. 20, 2005. These drawings are accepted.

Response to Arguments

4. Applicant's argument regarding claim rejections under 25 U. S. C. 112, second paragraph have been considered and are persuasive in view of the amended claims. The 25 U. S. C. 112, second paragraph rejections of claims 10,12,13, and 16 are withdrawn.

Applicant argues (Argument A) that Fermann does not disclose a polarization-maintaining device with a first output coupled to a pulse stretcher, and a second output coupled to a first pulse selector, as required by claims 5-16. This argument is found persuasive.

Claim Rejections - 35 USC § 102

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

6. Claims 1-2 are rejected under 35 U.S.C. 102(b) as being anticipated by Siebert (US Pat. No. 4,061,985).

With regard to claim 1, Siebert discloses in Fig. 1 an optical pulse shape controller comprising a mode-locked laser (18) and a pulse selector (20). The pulse selector is coupled by means of a mirror to the output of the mode locked laser and the pulse selector modulates the output stream of pulses based on an applied voltage, since the pulse selector is based on the Pockels effect (2nd col. lines 54-55). See Fowles, *Introduction to Modern Optics*, p.194. Note that the use of a secondary reference in connection with a 35 U.S.C. 102 rejection is proper when the secondary reference is cited to show that a characteristic not disclosed in the reference is inherent. See MPEP § 2131.01.

The clauses "for a fiber optic system" and "wherein the pulse selector modulates an output stream of pulses based upon an applied modulation voltage" are essentially statements of intended or desired use. Thus, these claims as well as other statements of intended use do not serve to patentably distinguish the claimed structure over that of the reference. See In re Pearson, 181 USPQ 641; In re Yanush, 177 USPQ 705; In re Finsterwalder, 168 USPQ 530; In re Casey, 512 USPQ 235; In re Otto, 136 USPQ 458; Ex parte Masham, 2 USPQ 2nd 1647.

See MPEP § 2114 which states:

A claim containing a "recitation with respect to the manner in which a claimed apparatus is intended to be employed does not differentiate the claimed apparatus from the prior art apparatus" if the prior art apparatus teaches all the structural limitations of the claim. Ex parte Masham, 2 USPQ 2nd 1647

Claims directed to apparatus must be distinguished from the prior art in terms of structure rather than functions. In re Danly, 120 USPQ 528, 531.

Apparatus claims cover what a device is not what a device does. Hewlett-Packard Co. v. Bausch & Lomb Inc., 15 USPQ2d 1525, 1528.

With regard to claim 2, the pulse selector is based on the Pockels effect, which is inherently an electro-optic effect (see Fowles pp. 192-194).

Claim Rejections - 35 USC § 103

7. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

8. Claims 3 is rejected under 35 U.S.C. 103(a) as being unpatentable over Siebert as applied to claims 1-2 above, and further in view of Richardson (US Pat. App. No. 2003/0156605). Siebert discloses all the elements of the claim except that the electro-optic modulator is a lithium niobate modulator. However, Richardson discloses a pulse selector comprising a lithium niobate electro-optic modulator as part of an optical pulse source (paragraph [0020]). It would have been obvious to one skilled in the art (e. g. an optical engineer) to use the lithium niobate modulator of Richardson in the optical pulse shaper of Siebert for the advantage of improved extinction of switched off pulses.

Note that the citations made herein are done so for the convenience of the applicant; they are in no way intended to be limiting. The prior art should be considered in its entirety.

Allowable Subject Matter

9. Claims 5-16 and 35 are allowed.

This Office Action is not intended to necessarily state all the reasons for allowance or all the details why the claims are allowed and has not been written to

specifically or impliedly state that all the reasons for allowance are set forth (MPEP 1302.14).

Information Disclosure Statement

10. The information disclosure statement filed on Dec. 20, 2005 has been considered by the Examiner.

Conclusion

11. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

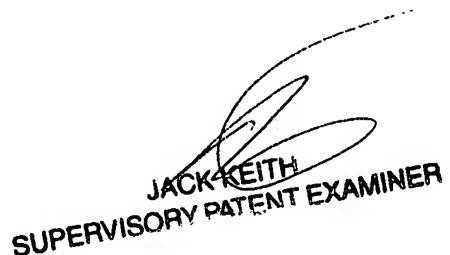
12. Any inquiry concerning this communication or earlier communications from the Examiner should be directed to Eric Bolda whose telephone number is 571-272-8104. The examiner can normally be reached on M-F from 8:30am to 5pm.

If attempts to reach the examiner by telephone are unsuccessful, the Examiner's supervisor, Jack Keith, can be reached on 571-272-6878. Please note the fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

E^oB

Eric Bolda



JACK KEITH
SUPERVISORY PATENT EXAMINER

A handwritten signature of "JACK KEITH" is written over a stylized, swooping line. Below the signature, the words "SUPERVISORY PATENT EXAMINER" are printed in a smaller, all-caps font.